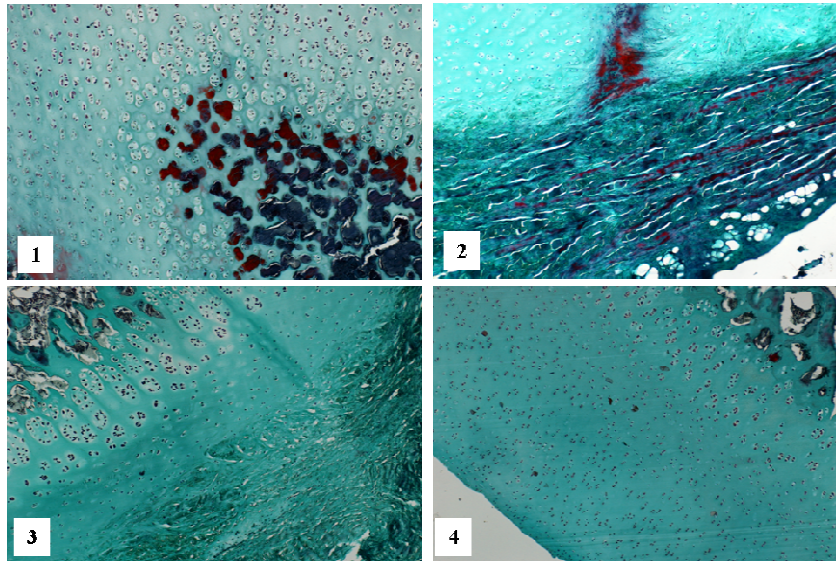


Table S1 - Basis of scoring for legs, feet and osteochondrosis.

Traits	Attribute	Scores				
Legs	Strength of legs Straightness	5	4	3	2	1
		Poor Flexing	Moderate Slightly bent	Very good Straight	Moderate Buckled	Poor Very buckled
Feet			Scores			
			3	2	1	
	Toes-soundness		Good	Moderate	Poor	
	Toes-weight distribution		Even	Moderate	Uneven	
	Angle of foot attachment		Good	Moderate	Low	
	Damage		None	Slight or temporary	Permanent	
OC			Scores			
			4	3	2	1
	Thickening of cartilage		Thick	Moderate	Thin	Very thin
	Cartilage structure		Good	Moderate	Low degradation and sporadic focal lesions	Degradation and focal lesions
	Vessels and cartilage canals structures		Good	Moderate	Low damage of cartilage canals	Damage vessels and cartilage canals

Figure S1 - Sample of histological templates for the evaluation of OC score



OC lesions are classified into four score values: (1) massive alterations of the cartilage including necrotic or ossified areas, (2) severe changes in the surface and deeper area of the articular cartilage like surface erosion, fibrillations, hyperplasia and chondrocyte necrosis, (3) cartilage shows few changes in surface and fibrillation, (4) cartilage surface is smooth, the matrix and chondrocytes are well organized with only a marginally rough surface or a weakly eosinophilic matrix or fibrillation